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Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Re: U.S. NonProvisional Patent Application  
Serial No. 10/734,055  
Filed: December 11, 2003  
Applicant: Bateman, et al  
Attorney Docket No. 03-MM-03 85.80038/006

Dear Sir:

1. First Class Mail Certificate / Transmittal Letter
2. Transmittal Form - PTO/SB21
3. Transmittal Information Disclosure Statement by Applicant
4. Information Disclosure Statement by Applicant  
Substitute for form 1449/PTO - PTO/SB/08A
5. Copies of references - AA, BB-BD
6. Prepaid Return Postcard

No fees are due at this time. But, should Applicant be mistaken please charge any necessary fees to our Deposit Account No. 23-0503.

CUSTOMER NO. 000043840

Anthony J. Janiuk  
Reg. No. 29,809

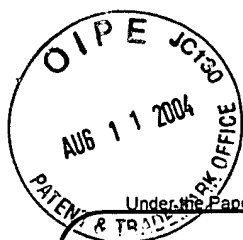
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under 37 CFR 1.8 (a)

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Date: Aug 9, 2004

Anthony J. Janiuk



PTO/SB/21 (02-04)

Approved for use through 07/31/2006. OMB 0651-0031

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**TRANSMITTAL  
FORM**

(to be used for all correspondence after initial filing)

Application Number 10/7334,055

Filing Date December 11, 2003

First Named Inventor Robert Harold Bateman

Art Unit 2881

Examiner Name Unknown

Total Number of Pages in This Submission

1

Attorney Docket Number 03-MM-03

**ENCLOSURES (Check all that apply)**

- |  |   |   |
|--|---|---|
| <input type="checkbox"/> Fee Transmittal Form                                | <input type="checkbox"/> Drawing(s)                                       | <input type="checkbox"/> After Allowance communication to Technology Center (TC)        |
| <input type="checkbox"/> Fee Attached  | <input type="checkbox"/> Licensing-related Papers                         | <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences     |
| <input type="checkbox"/> Amendment/Reply                                     | <input type="checkbox"/> Petition   | <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) |
| <input type="checkbox"/> After Final   | <input type="checkbox"/> Petition to Convert to a Provisional Application | <input type="checkbox"/> Proprietary Information  |
| <input type="checkbox"/> Affidavits/declaration(s)                           | <input type="checkbox"/> Power of Attorney, Revocation                    | <input type="checkbox"/> Status Letter  |
| <input type="checkbox"/> Extension of Time Request                           | <input type="checkbox"/> Change of Correspondence Address                 | <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):         |
| <input type="checkbox"/> Express Abandonment Request                         | <input type="checkbox"/> Terminal Disclaimer                              | Prepaid Return Postcard   |
| <input checked="" type="checkbox"/> Information Disclosure Statement         | <input type="checkbox"/> Request for Refund                               | IDS Statement by Applicant  |
| <input type="checkbox"/> Certified Copy of Priority Document(s)              | <input type="checkbox"/> CD, Number of CD(s) _____                        | Substitute for form 1449/PTO  |
| <input type="checkbox"/> Response to Missing Parts/Incomplete Application    | <input type="checkbox"/> Remarks _____                                    |   |
| <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53 |   |   |

**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**Firm or Individual name Anthony J. Janiuk, Esq.  
Reg. No. 29, 809

Signature

Date

**CERTIFICATE OF TRANSMISSION/MAILING**

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Typed or printed name

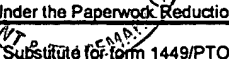
Anthony J. Janiuk

Signature

Date

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to the (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

*(Use as many sheets as necessary)*

Sheet	1	of	1
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**Complete if Known**

Application Number	10/734,055
Filing Date	December 11, 2003
First Named Inventor	Bateman, et al
Art Unit	2881
Examiner Name	Unknown
Attorney Docket Number	03-MM-03

## U. S. PATENT DOCUMENTS

[illegible]

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	MM-DD-YYYY			
	BB	EP 0 193 311 A2	09/03/1986	Amy, et al		
	BC	WO 01/93306	12/06/2001	Cornish, et al		
	BD	SU1780128A	12/07/1992	Chubinskii, et		

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

**If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.**



Docket No. 03-MM-03 85.80038/006

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Robert H. Bateman, et al  
Filed: December 11, 2003  
For: ION DETECTOR

Serial No.: 10/734,055

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

CERTIFICATE OF MAILING UNDER 37 CFR 1.8 (a)

I hereby certify that the attached correspondence is being deposited with the United State Postal Service, as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on August 9, 2004.

  
Anthony J. Janiak

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT  
WITHIN THREE MONTHS OF FILING OR BEFORE  
MAILING OF FIRST OFFICE ACTION (37 C.F.R. § 1.97(b))

In accordance with the provisions of 37 CFR 1.56 and 1.98, Applicants wish to bring the following publications, references cited and/or patents on the attached PTO-1449 form to the attention of the Examiner:

This IDS is being filed under 37 C.F.R. § 1.97 (b).

REMARKS

Applicant and his attorney are aware of the following publications and information, listed on the enclosed PTO Form 1449. In accordance with the provisions of 37 C.F.R. § 1.97(b), this statement is being filed before the mailing date of a first Action on the merits (37 C.F.R. § 1.97(b) (3)). No fee or certification is required. In the event that a first Office Action on the merits has been issued, please consider this IDS under 37 C.F.R. § 1.97(c) and see the certification under 37 C.F.R. § 1.97(e) below, or, if no certification has been made, please charge our deposit account a the fee required under 37 C.F.R. § 1.17(p).

## REMARKS

It is anticipated that the Examiner will conduct a thorough search of the prior art and will carefully consider each of the said documents cited herein.

It is respectfully requested that each of the documents shown on the attached substitute form for PTO-1449 / PTO/SB08A be made of record in this application. Copies of these documents are enclosed herewith.

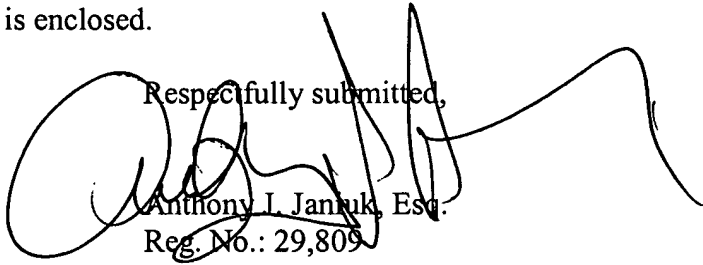
Early examination and allowance of the present application are respectfully solicited.

## FEE AUTHORIZATION

No fee is due at this time. In the event, Applicant is mistaken as to the calculation of fees, Applicant authorizes the Commissioner to charge any additional fees to Deposit Account No. 23-0503.

A duplicate copy of this sheet is enclosed.

Respectfully submitted,

  
Anthony L. Januk, Esq.  
Reg. No.: 29,809

Dated: Aug 9, 2004  
Tel. 508-482-2714  
Fax. 508-482-2320

CUSTOMER NO. 000043840